EXHIBIT A THE PARTIES' LOCAL PATENT RULE 4-3 JOINT CLAIM CONSTRUCTION CHART

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
	"irregular pattern"	Impulse's Proposed Construction: No construction necessary. Intrinsic Evidence: '976 Patent at Abstract, 2:2-6, 2:25-31, 2:32-41, 2:46-50, 3:53-60, 3:61-4:7, 4:20-25, 4:54-57, 6:4-36, 6:37-67, 7:1-41, Figs. 1-7. Extrinsic Evidence:	DWS's Proposed Construction: Arrhythmic pattern designed not to repeat within consecutive cycles of the rotor Intrinsic Evidence: '976 Patent at: Field (57); Fig. 4; Figs. 6–7; 1:62–2:31; 4:26–49; 5:1–23; 6:37–67; 7:1–65; Claims 1, 5, 10, 14, 17; IDT-DWS-0002839–51; IDT-DWS-002968–92. Extrinsic Evidence:
1	('976 Patent claims 1, 10, and 17)	Reserve the right to address and use any extrinsic evidence put forth by DWS.	IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351; IDT-DWS-000929–49; IDT-DWS-000115–468; Noynaert Testimony. DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
		Impulse's Proposed Construction: No construction necessary; not indefinite.	DWS's Proposed Construction: Indefinite.
	"a pattern in which an	Intrinsic Evidence:	Intrinsic Evidence:
	orientation of the flow head at a defined position in a cycle of the rotor is different	Same citations as "irregular pattern".	'976 Patent at: Field (57); Fig. 4; Figs. 6–7; 1:62–2:31; 4:26–49; 5:1–23; 6:37–67; 7:1–65; Claims 1–17, 19, 20; IDT-DWS-0002839–51; IDT-DWS-002968–92.
2	between consecutive	Extrinsic Evidence:	Extrinsic Evidence:
	cycles of the rotor"	Testimony from Dr. Harri Kytomaa	IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691;
	('976 Patent claims 1, 10, and	Reserve the right to address and use any extrinsic evidence put forth by DWS.	IDT-DWS-001409–27; IDT-DWS-000985–1351; IDT-DWS-000929–49; IDT-DWS-000115–468.
	17)		DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any
			untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
	<i>"</i>	Impulse's Proposed Construction: No construction necessary.	DWS's Proposed Construction: holes, other than a central bore, extending therethrough
3	"ports" ('976 Patent claims 1, 2, 10, 11, and 17) ('584 Patent claims 1, 26, 30, 33, and 36)	Intrinsic Evidence: '976 Patent at Abstract, 1:62-2:31, 3:61-4:7, 4:26-49, 4:63-5:22, 5:38-61, 6:4-36, 6:37-67, 7:1-41, Figs. 3-7. '584 Patent at Abstract, 2:17-33, 2:42-53, 2:64-3:16, 3:25-35, 3:51-65, 3:66-4:4, 6:11-25, 6:31-41, 6:52-65, 7:6-35, 7:55-8:3, 8:4-31, 8:33-65, 8:66-9:22, 9:40-64, 11:36-62, 11:63-12:19, Figs. 3, 4, 5, 6, 7, 8A, 8B.	Intrinsic Evidence: '976 Patent at: Field (57); Figs. 3–7; 1:62–2:31; 3:61–4:49; 4:58–5:61; 6:4–67; 7:1–65; Claims 1, 2, 4, 5, 8–11, 13–15, 17, 19, 20; IDT-DWS-0002839– 51; IDT-DWS-002968–92. '584 Patent at: Field (57); Figs. 3–14; 2:17–63; 2:64–67; 3:1–4:16; 6:11–12:19; Claims 1, 5–8, 12, 16, 20–23, 25, 26, 30, 33, 36, 38, 39; IDT-DWS-003569–77; IDT-DWS-004144–80; IDT-DWS-004204–86; IDT-DWS-004310–91.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
		Extrinsic Evidence:	Extrinsic Evidence:
		Reserve the right to address and use any extrinsic evidence put forth by DWS.	IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351; IDT-DWS-000929–49; IDT-DWS-000115–468. IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351; IDT-DWS-000929–49; IDT-DWS-000115–468. DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
		Impulse's Proposed Construction:	DWS's Proposed Construction:
		No construction necessary.	holes, other than a central bore, extending therethrough
	"passages"	<u>Intrinsic Evidence:</u>	<u>Intrinsic Evidence:</u>
4	('337 Patent claim 1)	'337 Patent at 10:26-41, 10:42-53, 10:54-11:2, 11:3-32, 11:33-49, Figs. 9A-13;	'337 Patent at: Field (57); Figs. 6A–6B; Figs. 7A–7B; Figs. 9A–9D; Figs. 11A–11B; 6:61–7:40; 7:54–8:42; 9:42–63; 9:64–10:25; 11:33–49; 13:11–
	('265 Patent claims 1, and 10)	'265 Patent at 10:40-51, 11:13-27, 12:37-48, Figs. 9A-13.	61; Claims 1–4, 8; IDT-DWS-001016–56; IDT-DWS-001127–83.
			'265 Patent at: Field (57); Figs. 6A–B; Figs. 9–15; 6:58–8:24; 8:25–13:59; Claims 1, 3–5, 8–10, 13, 18, 19; IDT-DWS-000191–225; IDT-DWS-000246–270.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
		Extrinsic Evidence:	Extrinsic Evidence:
		Reserve the right to address and use any extrinsic evidence put forth by DWS.	IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-000929–49; IDT-DWS-000115–468. IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351. DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
		Impulse's Proposed Construction: No construction necessary.	DWS's Proposed Construction: central bore
5	"central passage" ('337 Patent claims 1, 3, 4, and 8)	Intrinsic Evidence: '337 Patent at 6:33-40, 7:24-26, 8:9-26, 8:27-42, 9:13-21, 9:44-63, Figs. 1-9D, 11A, 11B;	Intrinsic Evidence: '337 Patent at: Field (57); Figs. 6A–6B; Figs. 7A– 7B; Figs. 9A–9D; Figs. 11A–11B; 6:61–7:40; 7:54–8:42; 9:42–63; 9:64–10:25; 11:33–49; 13:11–
	('265 Patent claims 1, 3, 5, 10, and 19)	'265 Patent at 7:21-23, 7:51-57, 8:6-24, 8:25-29, 9:12-32, 9:46-58, 10:3-8, 11:59-67, 12:12-15, Figs. 6A-13.	61; Claims 1–4, 8; IDT-DWS-001016–56; IDT-DWS-001127–83. '265 Patent at: Field (57); Figs. 6A–B; Figs. 9–15; 6:58–8:24; 8:25–13:59; Claims 1, 3–5, 8–10, 13, 18, 19; IDT-DWS-000191–225; IDT-DWS-000246–270.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
		Extrinsic Evidence:	Extrinsic Evidence:
		Reserve the right to address and use any extrinsic evidence put forth by DWS.	IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-000929–49; IDT-DWS-000115–468. IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351. DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
		Impulse's Proposed Construction:	DWS's Proposed Construction:
		No construction necessary.	central bore
		Intrinsic Evidence:	<u>Intrinsic Evidence:</u>
	"passage" ('265 Patent	'265 Patent at 7:21-23, 7:51-57, 8:6-24, 8:25-29, 9:12-32, 9:46-58, 10:3-8, 11:59-67, 12:12-15, Figs. 6A-13.	'265 Patent at: Field (57); Figs. 6A–B; Figs. 9–15; 6:58–8:24; 8:25–13:59; Claims 1, 3–5, 8–10, 13, 18, 19; IDT-DWS-000191–225; IDT-DWS-000246–270.
6		Extrinsic Evidence:	Extrinsic Evidence:
	claim 10)	Reserve the right to address and use any extrinsic evidence put forth by DWS.	IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351. DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
		Impulse's Proposed Construction: No construction necessary.	DWS's Proposed Construction: non-concentric / non-concentrically
7	"eccentric" ('976 Patent claims 1, 10, and 17) -and- "eccentrically" ('976 Patent claims 1, 10, 12, and 16)	Intrinsic Evidence: '976 Patent at 2:2-6, 2:25-31, 3:53-60, 3:66-4:7, 4:8-25, 4:50-57, 6:4-36, 6:37-67, 7:1-41, Figs. 1, 2, 7. Extrinsic Evidence: Reserve the right to address and use any extrinsic evidence put forth by DWS.	Intrinsic Evidence: '976 Patent at: Field (57); Figs. 1–2; 1:62–2:31; 3:45–60; 4:50–57; 6:4–35; Claims 1, 10, 12, 16, 17, 20; IDT-DWS-0002839–51; IDT-DWS-002968– 92. Extrinsic Evidence: IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351; IDT-DWS-000929–49; IDT-DWS-000115–468; DWS00000903–20. DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.
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No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
	"rotational motion"	Impulse's Proposed Construction: No construction necessary.	<u>DWS's Proposed Construction</u> : non-eccentric (concentric) motion
		Intrinsic Evidence: '584 Patent at 2:16-33, 3:1-17, 4:5-8, 5:41-6:10, 7:6-35, 8:4-31, 9:23-39, 10:9-28, 12:7-19, Figs. 1- 14.	Intrinsic Evidence: '584 Patent at: Field (57); Figs. 1–5; Figs. 8A–B; 2:17–33; 2:57–63; 3:1–16; 3:56–65; 4:5–8; 4:33– 54; 5:29–40; 5:58–6:41; 7:6–54; 8:4–65; 8:66– 10:8; 10:29–45; Claims 1, 10, 31, 36; IDT-DWS-001590–626; IDT-DWS-003964–91; IDT-DWS-004144–80; IDT-DWS-004204–86; IDT-DWS-004310–91.
8	('584 Patent claims 1, 31, and 36)	Extrinsic Evidence: Rubicon's Markman Hearing Transcript at 5:12-21, 8:6-10:17, 11:5-13, 15:14-18:12, 21:12-22:12, 36:9-25, 39:14-41:13. Reserve the right to address and use any extrinsic evidence put forth by DWS.	Extrinsic Evidence: IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351; IDT-DWS-000929–49; IDT-DWS-000115–468; DWS00000903–20. DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
		Impulse's Proposed Construction: No construction necessary.	<u>DWS's Proposed Construction</u> : orientation permitting fluid flow therethrough
		Intrinsic Evidence:	Intrinsic Evidence:
9	"alignment" ('976 Patent claims 1, 10, and 17) ('584 Patent claims 1, 26, and 36) ('337 Patent claim 1) ('265 Patent claims 1, and 10)	'976 Patent at Abstract, 2:20-25, 4:26-38, 5:12-22, 6:4-36, 6:46-55, Figs. 1-7. '584 Patent at Abstract, 2:17-33, 3:1-16, 3:56-65, 8:16-29, 8:66-9:14, 9:40-56, 9:66-10:3, 11:36-62, 11:63-66, Figs. 4, 5, 6, 7, 8B, 11A, 11B, 12A. '337 Patent at Abstract, 10:26-53, 11:3-21, 12:31-47, Figs. 9A, 9B, 11A, 11B, 13. '265 Patent at 10:27-51, 11:1-23, 12:29-45, Figs. 9A, 9B, 11A, 11B, 13.	'976 Patent at: Field (57); Figs. 3–7; 1:62–2:31; 3:61–4:49; 4:58–5:61; 6:4–67; 7:1–65; Claims 1, 10, 17; IDT-DWS-0002839–51; IDT-DWS-002968–92. '584 Patent at: Field (57); Figs. 3–14; 2:17–63; 2:64–67; 3:1–4:16; 6:11–12:19; Claims 1, 16, 26, 36; IDT-DWS-003569–77; IDT-DWS-004144–80; IDT-DWS-004204–86; IDT-DWS-004310–91. '337 Patent at: Field (57); Figs. 6A–6B; Figs. 7A–7B; Figs. 9A–9D; Figs. 11A–11B; 6:61–7:40; 7:54–8:42; 9:42–63; 9:64–10:25; 11:3–49; 12:27–60; 13:11–61; Claims 1, 2; IDT-DWS-001016–56; IDT-DWS-001127–83. '265 Patent at: Field (57); Figs. 6A–B; Figs. 9–15; 8:25–14:51; Claims 1, 4, 8, 10, 18; IDT-DWS-000191–225; IDT-DWS-000246–270.

Extrinsic Evidence:	Extrinsic Evidence:
Rubicon's Markman Hearing Transcript at 79:5-8.	IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691;
Reserve the right to address and use any extrinsic evidence put forth by DWS.	IDT-DWS-001409–27; IDT-DWS-000985–1351; IDT-DWS-000929–49; IDT-DWS-000115–468; IDT-DWS-004540–48.
	IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351; IDT-DWS-000929–49; IDT-DWS-000115–468; IDT-DWS-004540–48.
	IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351; IDT-DWS-004540–48.
	IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-000929–49; IDT-DWS-000115–468; IDT-DWS-004540–48.
	DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.
	untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
		Impulse's Proposed Construction:	DWS's Proposed Construction:
		No construction necessary.	two or more ports comprising at least two different cross sectional areas, measured at the face
		Intrinsic Evidence:	Intrinsic Evidence:
	"a plurality of ports having at least two	'976 Patent at 1:62-2:31, 2:46-50, 3:61-4:7, 4:26-49, 4:63-5:22, 5:34-61, 6:4-36, 6:37-67, 7:1-41, Figs. 3-7.	'976 Patent at: Field (57); Figs. 3–7; 1:62–2:31; 3:61–4:49; 4:58–5:61; 6:4–67; 7:1–65; Claims 1, 2, 4, 5, 8–11, 13–15, 17, 19, 20; IDT-DWS-0002839–51; IDT-DWS-002968–92.
10	different cross- sectional areas"	Extrinsic Evidence:	Extrinsic Evidence:
	('976 Patent claim 2)	Reserve the right to address and use any extrinsic evidence put forth by DWS.	IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351; IDT-DWS-000929–49; IDT-DWS-000115–468. DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
	"the plurality of ports including ports of different sizes"	Impulse's Proposed Construction: No construction necessary. Intrinsic Evidence:	DWS's Proposed Construction: two or more ports comprising at least two different cross sectional areas, measured at the face alternatively, indefinite Intrinsic Evidence:
11		'976 Patent at 1:62-2:31, 3:61-4:7, 4:26-49, 4:63-5:22, 5:34-61, 6:9-36, 6:37-67, 7:1-41, Figs. 3-7.	'976 Patent at: Field (57); Figs. 3–7; 1:62–2:31; 3:61–4:49; 4:58–5:61; 6:4–67; 7:1–65; Claims 1, 2, 4, 5, 8–11, 13–15, 17, 19, 20; IDT-DWS-0002839–51; IDT-DWS-002968–92.
	('976 Patent claim 10)	Extrinsic Evidence: Reserve the right to address and use any extrinsic evidence put forth by DWS.	Extrinsic Evidence: IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351; IDT-DWS-000929–49; IDT-DWS-000115–468. DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
	"the plurality of	Impulse's Proposed Construction: No construction necessary.	DWS's Proposed Construction: two or more ports in each of the flow head and the flow restrictor where the ports of the flow head comprise at least two different cross sectional areas, measured at the face, and the ports of the flow restrictor comprise at least two different cross-sectional areas, measured at the face alternatively, indefinite
12	ports in the flow head comprising different sizes and the plurality of ports in the flow restrictor comprising	Intrinsic Evidence: '976 Patent at 1:62-2:31, 2:46-50, 3:61-4:7, 4:26-49, 4:63-5:22, 5:34-61, 6:4-36, 6:37-67, 7:1-41, Figs. 3-7.	Intrinsic Evidence: '976 Patent at: Field (57); Figs. 3–7; 1:62–2:31; 3:61–4:49; 4:58–5:61; 6:4–67; 7:1–65; Claims 1, 2, 4, 5, 8–11, 13–15, 17, 19, 20; IDT-DWS-0002839– 51; IDT-DWS-002968–92.
	different sizes" ('976 Patent claim 17)	Extrinsic Evidence: Reserve the right to address and use any extrinsic evidence put forth by DWS.	Extrinsic Evidence: IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351; IDT-DWS-000929–49; IDT-DWS-000115–468. DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
	the flow head	Impulse's Proposed Construction: No construction necessary. Intrinsic Evidence:	DWS's Proposed Construction: the two or more cross sectional areas of the ports of the flow restrictor, measured at the face of the flow restrictor, are different than the two or more cross sectional areas of the ports of the flow head, measured at the face of the flow head alternatively, indefinite Intrinsic Evidence:
13		'584 Patent at 3:1-16, 3:51-65, 3:66-4:4, 6:11-25, 6:31-41, 6:62-65, 7:6-35, 7:42-51, 7:67-8:3, 8:4-31, 8:33-65, 8:66-9:22, 9:40-64, 11:36-62, 11:63-12:19, Figs. 4-14.	'584 Patent at: Field (57); Figs. 1–14; 2:42–53; 3:1–5:3; 5:58–9:22; 9:23–11:10; 12:6–34; Claims 5, 6, 16, 20, 26, 30, 38, 39; IDT-DWS-003569–77; IDT-DWS-004144–80; IDT-DWS-004204–86; IDT-DWS-004310–91.
	ports" ('584 Patent claim 30)	Extrinsic Evidence: Reserve the right to address and use any extrinsic evidence put forth by DWS.	Extrinsic Evidence: IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351; IDT-DWS-000929–49; IDT-DWS-000115–468. DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
		Impulse's Proposed Construction:	<u>DWS's Proposed Construction</u> :
		No construction necessary.	a first number of ports comprising at least two different cross sectional areas, measured at the face
			alternatively, indefinite
		<u>Intrinsic Evidence:</u>	<u>Intrinsic Evidence:</u>
14	"a number of ports of at least two different sizes"	'584 Patent at 3:1-16, 3:51-65, 3:66-4:4, 6:11-25, 6:31-41, 6:62-65, 7:6-35, 7:42-51, 7:67-8:3, 8:4-31, 8:33-65, 8:66-9:22, 9:40-64, 11:36-62, 11:63-12:19, Figs. 4-14.	'584 Patent at: Field (57); Figs. 1–14; 2:42–53; 3:1–5:3; 5:58–9:22; 9:23–11:10; 12:6–34; Claims 16, 20, 26, 30; IDT-DWS-003569–77; IDT-DWS-004144–80; IDT-DWS-004204–86; IDT-DWS-004310–91.
	('584 Patent	Extrinsic Evidence:	Extrinsic Evidence:
	claim 30)	Reserve the right to address and use any extrinsic evidence put forth by DWS.	IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002719–32; IDT-DWS-002491–691;
		evidence put form by B w B.	IDT-DWS-001409–27; IDT-DWS-000985–1351;
			IDT-DWS-000929–49; IDT-DWS-000115–468.
			DWS reserves the right to rely on any extrinsic
			evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by
			Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
15	"a different number of ports of at least two different sizes" ('584 Patent claim 30)	Impulse's Proposed Construction: No construction necessary. Intrinsic Evidence: '584 Patent at 3:1-16, 3:51-65, 3:66-4:4, 6:11-25, 6:31-41, 6:62-65, 7:6-35, 7:42-51, 7:67-8:3, 8:4-31, 8:33-65, 8:66-9:22, 9:40-64, 11:36-62, 11:63-12:19, Figs. 4-14. Extrinsic Evidence: Reserve the right to address and use any extrinsic evidence put forth by DWS.	a second number, different from the first number, of ports comprising at least two different cross sectional areas, measured at the face alternatively, indefinite Intrinsic Evidence: '584 Patent at: Field (57); Figs. 1–14; 2:42–53; 3:1–5:3; 5:58–9:22; 9:23–11:10; 12:6–34; Claims 16, 20, 26, 30; IDT-DWS-003569–77; IDT-DWS-004144–80; IDT-DWS-004204–86; IDT-DWS-004310–91. Extrinsic Evidence: IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351; IDT-DWS-000929–49; IDT-DWS-000115–468. DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any
			untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
16	"a cyclic, polyrhythmic pattern" ('584 Patent claims 1, 26, and 36)	Impulse's Proposed Construction: a pattern of: two or more different rhythms within one revolution of the flowhead wherein a rhythm refers to either varying amplitude or duration between pressure peaks. Intrinsic Evidence: '584 Patent at Abstract, 2:11-41, 3:45-55, 7:6-35, 8:4-31, 8:32-65, 8:66-9:22, 9:31-39, 9:40-10:8, 10:9-28, 10:46-11:10, 12:7-19, Figs. 1-14. Extrinsic Evidence: Rubicon's Markman Hearing Transcript at 3:14-4:4, 3:14-4:4, 7:23-12:21, 12:22-14:12, 15:14-16:12, 19:5-21:9, 36:9-25, 48:2-18. Reserve the right to address and use any extrinsic evidence put forth by DWS.	a designed pattern of: two or more different rhythms within one revolution of the flow head wherein a rhythm refers to either varying amplitude or duration between pressure peaks Intrinsic Evidence: '584 Patent at: Field (57); Figs. 4–14; 2:17–63; 3:1–65; 7:6–54; 8:4–9:22; 9:40–11:10; 11:19–12:19; Claims 1, 16, 26, 36; IDT-DWS-003569–77; IDT-DWS-004144–80; IDT-DWS-004204–86; IDT-DWS-004310–91. Extrinsic Evidence: IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351; IDT-DWS-0009816–902; Noynaert Testimony. DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
		Impulse's Proposed Construction: No construction necessary.	DWS's Proposed Construction: limited to
	"constrained to"	Intrinsic Evidence: '584 Patent at Abstract, 5:41-6:10, 6:11-25, 7:6-35, 8:4-31, 9:23-39, 10:9-28, 12:7-19, Figs. 5-14.	Intrinsic Evidence: '584 Patent at: Field (57); Figs. 1–14; 2:17–63; 3:1–16; 4:5–8; 5:58–6:41; 9:23–39; Claims 1, 16, 31, 36; IDT-DWS-003569–77; IDT-DWS-004144– 80; IDT-DWS-004204–86; IDT-DWS-004310–91.
17	('584 Patent claims 1, 31, and 36)	Extrinsic Evidence: Reserve the right to address and use any extrinsic evidence put forth by DWS.	Extrinsic Evidence: IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351; IDT-DWS-000929–49; IDT-DWS-000115–468; DWS00000903–20.
			DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
	"substantially stopped" 8 ('584 Patent claims 27, and 33)	Impulse's Proposed Construction: No construction necessary; not indefinite.	DWS's Proposed Construction: Indefinite.
		Intrinsic Evidence: '584 Patent at 2:17-41, 3:51-55, 8:32-65, 8:66-9:22, 9:40-65, 10:29-45, 11:36-12:5, Figs. 5-14.	Intrinsic Evidence: '584 Patent at: Field (57); Figs. 4–14; 2:34–51; 3:17–24; 3:51–65; 4:9–11; 5:58–6:10; 7:6–35; 8:4– 9:22; 9:40–65; 10:46–12:5; Claims 4, 19, 27, 33; IDT-DWS-003569–77; IDT-DWS-004144–80; IDT-DWS-004204–86; IDT-DWS-004310–91.
18		Extrinsic Evidence: Testimony from Dr. Harri Kytomaa Rubicon's Markman Hearing Transcript at 80:11- 18	Extrinsic Evidence: IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351; IDT-DWS-000929–49; IDT-DWS-000115–468; IDT-DWS-004540–48; IDT-DWS-004528–36;
		Reserve the right to address and use any extrinsic evidence put forth by DWS.	Noynaert Testimony. DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
	"substantially blocked" ('584 Patent claim 4)	Impulse's Proposed Construction: No construction necessary; not indefinite.	DWS's Proposed Construction: Indefinite.
		Intrinsic Evidence: '584 Patent at 2:17-41, 3:51-55, 8:32-65, 8:66-9:22, 9:40-65, 10:29-45, 11:36-12:5, Figs. 5-14.	Intrinsic Evidence: '584 Patent at: Field (57); Figs. 4–14; 2:34–51; 3:17–24; 3:51–65; 4:9–11; 5:58–6:10; 7:6–35; 8:4– 9:22; 9:40–65; 10:46–12:5; Claims 4, 19, 27, 33; IDT-DWS-003569–77; IDT-DWS-004144–80; IDT-DWS-004204–86; IDT-DWS-004310–91.
19		Extrinsic Evidence: Rubicon's Markman Hearing Transcript at 80:11- 18. Testimony from Dr. Harri Kytomaa	Extrinsic Evidence: IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351; IDT-DWS-000929–49; IDT-DWS-000115–468; IDT-DWS-004540–48; IDT-DWS-004528–36;
		Reserve the right to address and use any extrinsic evidence put forth by DWS.	Noynaert Testimony. DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
	"substantially	Impulse's Proposed Construction: No construction necessary; not indefinite.	DWS's Proposed Construction: Indefinite.
		Intrinsic Evidence: '265 Patent at 7:38-50, 8:35-40, 8:51-58, 8:61-9:3,	Intrinsic Evidence: '265 Patent at: Field (57); Figs. 1–15; 2:33–58;
		10:3-23, 11:59-12:6, 12:25-58, Figs. 6A-13.	6:58–7:6; 7:51–8:24; 9:62–12:58; Claims 2, 10–13; IDT-DWS-000191–225; IDT-DWS-000246–270.
20	blocking"	Extrinsic Evidence:	Extrinsic Evidence:
	('265 Patent claim 10)	Testimony from Dr. Harri Kytomaa	IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002106–25; IDT-DWS-001443–2007;
		Reserve the right to address and use any extrinsic evidence put forth by DWS.	IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351; IDT-DWS-004540–48; IDT-DWS-004528–36; Noynaert Testimony.
			DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
		Impulse's Proposed Construction:	DWS's Proposed Construction:
		Subject to 35 U.S.C. § 112, ¶6	Subject to 35 U.S.C. § 112(f)
21	"by means of an inverter sub" ('584 Patent claim 34)	Function: "to induce a variation in pressure in the drilling string corresponding to a variation in flow of the drilling fluid."	Function: inducing a variation in pressure in the drilling string corresponding to a variation in flow of the drilling fluid
		Structure: a housing and a shock absorbing and releasing assembly, such as a mechanical spring assembly, and equivalents thereof. "	Structure: an inverter system imparting an axial movement to a mandrel
		<u>Intrinsic Evidence:</u>	Intrinsic Evidence:
		'584 Patent at 4:16-31, 4:32-54, 4:55-5:3, 5:4-15, 5:29-40, 6:42-51, 9:23-39, Figs. 4-14.	'584 Patent at: Field (57); Figs. 1–14; 2:34–63; 4:5–6:51; 9:23–39; Claims 11, 35; IDT-DWS-003569–77; IDT-DWS-004144–80; IDT-DWS-004204–86; IDT-DWS-004310–91.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
		Extrinsic Evidence: Reserve the right to address and use any extrinsic evidence put forth by DWS.	Extrinsic Evidence: IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351; IDT-DWS-000929–49; IDT-DWS-000115–468; IDT-DWS-004540–48; IDT-DWS-004528–36; IDT-DWS-004489–95. DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
22	"the receiving end is substantially funnel-shaped and comprises at least one aperture permitting drilling fluid flow from an interior of the receiving end to an exterior of the catch	Impulse's Proposed Construction: No construction necessary; not indefinite. Intrinsic Evidence: '920 Patent at 4:14-27, Figs. 1-7, 9, 10. Extrinsic Evidence: Testimony from Dr. Harri Kytomaa Reserve the right to address and use any extrinsic evidence put forth by DWS.	DWS's Proposed Construction: Indefinite. Intrinsic Evidence: '920 Patent at: Field (57); Figs. 1–10; 3:33–5:31; Claims 1, 7, 13; IDT-DWS-002510–684. Extrinsic Evidence: IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-001409–27; IDT-DWS-000985–1351; IDT-DWS-000929–49; IDT-DWS-000115–468; IDT-DWS-004540–48; IDT-DWS-004528–36; IDT-DWS-004489–95; DWS00000993–20;
	component" ('920 Patent claims 1, and 7)		Noynaert Testimony. DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
		Impulse's Proposed Construction: No construction necessary; not indefinite.	DWS's Proposed Construction: Indefinite.
		Intrinsic Evidence:	Intrinsic Evidence:
23	"the assembly" ('337 Patent claims 1, and 3-6)	'337 Patent at 5:34-6:10, 6:33-40, 6:61-7:9, 7:24-26, 8:9-26, 8:27-42, 9:13-21, 9:44-63, 13:11-32, Figs. 1-9D, 11A, 11B.	'337 Patent at: Field (57); Figs. 3–4; Figs. 6A–B; Figs. 7A–B; Figs. 9A–D; Figs. 10A–B; Figs. 12–15; 1:19–21; 1:32–50; 4:36–5:12; 5:13–46; 5:47–6:10; 6:41–7:9; 7:10–8:8; 8:27–60; 9:6–11:2; 11:3–12:13; 12:14–60; 13:11–14:37; 14:38–15:12; 15:13–62; Claims 1–8; IDT-DWS-001016–56; IDT-DWS-001127–83.
		Extrinsic Evidence:	Extrinsic Evidence:
		Testimony from Dr. Harri Kytomaa Reserve the right to address and use any extrinsic evidence put forth by DWS.	IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-000929–49; IDT-DWS-000115–468; Noynaert Testimony.
			DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
		Impulse's Proposed Construction: No construction necessary; not indefinite.	DWS's Proposed Construction: Indefinite.
		Intrinsic Evidence: '337 Patent at 5:34-6:10, 6:33-40, 6:61-7:9, 7:24-	Intrinsic Evidence: '337 Patent at: Field (57); Figs. 3–4; Figs. 6A–B;
24	"assemblies" and "the assemblies"	26, 8:9-26, 8:27-42, 9:13-21, 9:44-63, 13:11-32, Figs. 1-9D, 11A, 11B.	Figs. 7A–B; Figs. 9A–D; Figs. 10A–B; Figs. 12–15; 1:19–21; 1:32–50; 4:36–5:12; 5:13–46; 5:47–6:10; 6:41–7:9; 7:10–8:8; 8:27–60; 9:6–11:2; 11:3–12:13; 12:14–60; 13:11–14:37; 14:38–15:12; 15:13–62; Claims 1–8; IDT-DWS-001016–56; IDT-DWS-001127–83.
21	('337 Patent claims 7, and 8)	Extrinsic Evidence: Testimony from Dr. Harri Kytomaa	Extrinsic Evidence: IDT-DWS-003277–88; IDT-DWS-002818–3193;
		Reserve the right to address and use any extrinsic evidence put forth by DWS.	IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-000929–49; IDT-DWS-000115–468; Noynaert Testimony.
			DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
		Impulse's Proposed Construction:	DWS's Proposed Construction:
		No construction necessary; not indefinite.	Indefinite.
		<u>Intrinsic Evidence:</u>	<u>Intrinsic Evidence:</u>
25	"each assembly" ('337 Patent claim 8)	'337 Patent at 5:34-6:10, 6:33-40, 6:61-7:9, 7:24-26, 8:9-26, 8:27-42, 9:13-21, 9:44-63, 13:11-32, Figs. 1-9D, 11A, 11B.	'337 Patent at: Field (57); Figs. 3–4; Figs. 6A–B; Figs. 7A–B; Figs. 9A–D; Figs. 10A–B; Figs. 12–15; 1:19–21; 1:32–50; 4:36–5:12; 5:13–46; 5:47–6:10; 6:41–7:9; 7:10–8:8; 8:27–60; 9:6–11:2; 11:3–12:13; 12:14–60; 13:11–14:37; 14:38–15:12; 15:13–62; Claims 1–8; IDT-DWS-001016–56; IDT-DWS-001127–83.
		Extrinsic Evidence:	Extrinsic Evidence:
		Testimony from Dr. Harri Kytomaa Reserve the right to address and use any extrinsic evidence put forth by DWS.	IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-000929–49; IDT-DWS-000115–468; Noynaert Testimony.
			DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
		Impulse's Proposed Construction:	DWS's Proposed Construction:
		No construction necessary; not indefinite.	Indefinite.
		Intrinsic Evidence:	Intrinsic Evidence:
	"a drilling string" ('265 Patent claims 1, and 10)	'265 Patent at 1:17-19, 1:29-42, 2:33-58, 2:59-3:14, 3:15-20, 4:33-35, 4:42-5:9, 5:51-6:7, Figs. 1-5, 14, 15.	'265 Patent at: Field (57); Figs. 1–15; 1:17–19; 1:29–47; 2:33–7:6; 8:25–15:60; Claims 1, 3, 8–10, 14; IDT-DWS-000191–225; IDT-DWS-000246–270.
		'265 Patent prosecution history.	
26		Extrinsic Evidence:	Extrinsic Evidence:
		Testimony from Dr. Harri Kytomaa	IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002106–25; IDT-DWS-001443–2007;
		Langenkamp, Handbook of Oil Industry Terms &	IDT-DWS-002719–32; IDT-DWS-002491–691;
		Phrases, 4 th edition, 1984 "Drillstring" at p. 84	IDT-DWS-001409–27; IDT-DWS-000985–1351; IDT-DWS-004540–48; IDT-DWS-004528–36;
		Reserve the right to address and use any extrinsic evidence put forth by DWS.	IDT-DWS-004489–95.
			DWS reserves the right to rely on any extrinsic
			evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by
			Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.
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No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
		Impulse's Proposed Construction: No construction necessary.	<u>DWS's Proposed Construction</u> : capable of being provided sufficient flow to cause
		Intrinsic Evidence:	rotation of the rotor Intrinsic Evidence:
	"activatable"	'337 Patent at 3:18-35, 3:59-4:12, 6:41-50, 6:53-60, 7:1-9, 9:24-28, 11:6-11, 12:2-3, 12:14-26, 12:27-38, Figs. 2, 4-6, 14, 15.	'337 Patent at: Fig. 2; Figs. 4–5; Figs. 6A–B; Figs. 7A–B; Figs. 8A–B; Figs. 14–15; 3:18–4:12; 4:51–7:9; 7:41–9:5; 9:6–41; 9:42–10:25; 11:33–15:51; Claims 1, 3; IDT-DWS-001016–56; IDT-DWS-001127–83.
27	('337 Patent claim 1)	Extrinsic Evidence:	Extrinsic Evidence:
		Reserve the right to address and use any extrinsic evidence put forth by DWS.	IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-000929–49; IDT-DWS-000115–468. DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by
			Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
28	"activate" ('337 Patent claim 1) ('265 Patent claim 1)	Impulse's Proposed Construction: No construction necessary. Intrinsic Evidence: '337 Patent at 3:18-35, 3:59-4:12, 9:24-28, 11:6-10, 12:2-3, 12:14-26, 12:27-38, Figs. 2, 4-6, 14, 15; '265 Patent at Abstract, 3:37-41, 6:50-57, 14:7-17, 14:26-31, 14:43-46, 15:1-10, 15:11-18, Figs. 2-15. '337 Patent Same citations as "activatable" above.	DWS's Proposed Construction: provide sufficient flow to cause rotation of the rotor Intrinsic Evidence: '337 Patent at: Fig. 2; Figs. 4–5; Figs. 6A–B; Figs. 7A–B; Figs. 8A–B; Figs. 14–15; 3:18–4:12; 4:51–7:9; 7:41–9:5; 9:6–41; 9:42–10:25; 11:33–15:51; Claims 1, 3; IDT-DWS-001016–56; IDT-DWS-001127–83. '265 Patent at: Field (57); Figs. 1–15; 3:15–7:6; 7:38–10:39; 11:1–15:49; Claims 1, 3, 6, 10, 11, 13, 14, 17; IDT-DWS-000191–225; IDT-DWS-000246–270.
		'265 Patent Same citations as "activated" below.	

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
		Extrinsic Evidence: Reserve the right to address and use any extrinsic evidence put forth by DWS.	Extrinsic Evidence: IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-000929–49; IDT-DWS-000115–468. IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351. DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the
			right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
		Impulse's Proposed Construction:	DWS's Proposed Construction:
		No construction necessary.	providing sufficient flow to cause rotation of the rotor
		<u>Intrinsic Evidence:</u>	<u>Intrinsic Evidence:</u>
	"activating"	'265 Patent at Abstract, 3:37-41, 6:50-57, 6:58-7:6, 14:7-17, 14:26-31, 14:43-46, 15:1-10, 15:11-18, Figs. 2-15.	'265 Patent at: Field (57); Figs. 1–15; 3:15–7:6; 7:38–10:39; 11:1–15:49; Claims 1, 3, 6, 10, 11, 13, 14, 17; IDT-DWS-000191–225; IDT-DWS-000246–270.
29	('265 Patent	Extrinsic Evidence:	Extrinsic Evidence:
	claims 1, and 10)	Reserve the right to address and use any extrinsic evidence put forth by DWS.	IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351. DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
		Impulse's Proposed Construction:	DWS's Proposed Construction:
		No construction necessary.	having provided sufficient flow to have caused rotation of the rotor
		Intrinsic Evidence:	Intrinsic Evidence:
	"activated"	'265 Patent at Abstract, 3:37-41, 6:50-57, 6:58-7:6, 14:7-17, 14:26-31, 14:43-46, 15:1-10, 15:11-18, Figs. 2-15.	'265 Patent at: Field (57); Figs. 1–15; 3:15–7:6; 7:38–10:39; 11:1–15:49; Claims 1, 3, 6, 10, 11, 13, 14, 17; IDT-DWS-000191–225; IDT-DWS-000246–270.
30	('265 Patent	Extrinsic Evidence:	Extrinsic Evidence:
	claim 10)	Reserve the right to address and use any extrinsic evidence put forth by DWS.	IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351. DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
31	"activation tool" ('337 Patent claim 3) ('265 Patent claims 3, 10, and 17)	Impulse's Proposed Construction: No construction necessary. Intrinsic Evidence: '337 Patent at 6:24-40, 6:53-60, 7:41-53, 7:54-8:8, 8:9-26, 8:37-42, 8:43-60, 8:61-9:5, 12:27-38, Figs. 1-8B; '265 Patent at Abstract, 4:48-5:9, 5:10-30, 5:31-43, 5:44-6:7, 6:8-37, 6:38-57, 7:38-50, 8:41-9:3, 9:62-10:23, 11:31-12:11, 12:12-58, 12:59-13:8, 13:9-30,	DWS's Proposed Construction: projectile catch assembly, which comprises a projectile catch head including one or more bypass ports, a projectile catch seat, and a projectile catch retainer Intrinsic Evidence: '337 Patent at: Fig. 2; Figs. 4–5; Figs. 6A–B; Figs. 7A–B; Figs. 8A–B; Figs. 14–15; 3:18–4:12; 4:51–7:9; 7:41–9:5; 9:6–41; 9:42–10:25; 11:33–15:51; Claims 1, 3; IDT-DWS-001016–56; IDT-DWS-001127–83. '265 Patent at: Field (57); Figs. 1–15; 3:15–7:6; 7:38–10:39; 11:1–15:49; Claims 1, 3, 6, 10, 11, 13,
		13:31-59, 13:60-14:35, 14:52-15:10, 15:11-49, 15:50-60, Figs. 2, 4, 5, 6A, 8A, 8B, 12, 13.	14, 17; IDT-DWS-000124–225; IDT-DWS-000246–270; IDT-DWS-000413–30.

No.	CLAIM TERM/PHRASE	IMPULSE'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE	DWS'S PROPOSED CONSTRUCTION AND INTRINSIC AND EXTRINSIC EVIDENCE
		Extrinsic Evidence: Reserve the right to address and use any extrinsic evidence put forth by DWS.	Extrinsic Evidence: IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-000929–49; IDT-DWS-000115–468. IDT-DWS-003277–88; IDT-DWS-002818–3193; IDT-DWS-002106–25; IDT-DWS-001443–2007; IDT-DWS-002719–32; IDT-DWS-002491–691; IDT-DWS-001409–27; IDT-DWS-000985–1351. DWS reserves the right to rely on any extrinsic evidence relied upon by Plaintiffs, reserves the
			right to respond to any expert testimony offered by Plaintiffs, and reserves the right to object to any untimely disclosed extrinsic evidence by Plaintiffs.